



SW-5010

**Section 2.2**  
**Capital Budget Grant Request Form**  
**Watershed Plan Implementation and Flow Achievement**

**Project Title: Water Conservation Project**

[If your Watershed Plan Implementation and Flow Achievement Request is related to or part of a Operational Project Funding Request for 2009-11 please cross-reference the name of that project in parenthesis above]

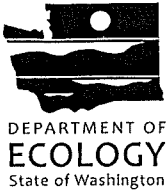
**County: Clark**

**WRIA: 28**

If more space is needed attach additional sheets

<b>1. Applicant Information</b>		
<b>Applicant name</b> City of Camas	<b>Phone no.</b> (360) 817-1563	<b>Fax no.</b> (360) 834-0215
<b>Address</b> PO Box 1055		
<b>City</b> Camas	<b>State</b> Wa	<b>Zip code</b> 98607
<b>Email address</b> elevison@ci.camass.wa.us		
<b>Water right holder name (If applicable and if other than applicant)</b> City of Camas	<b>Phone Number</b> ( )	<b>Fax Number</b> ( )
<b>Mailing address</b> Same as above		
<b>City</b>	<b>State</b>	<b>Zip code</b>

<b>2. Project Location</b>
<b>Project name</b> Water Conservation Project
<b>Project location</b> City Parks and Camas school sites
<b>Stream reach mile or location</b> Lacamas Creek, Dwyer Creek, Washougal River



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#### 3. Project Type and Description

(Check all that apply)

Conservation and/or infrastructure improvement  
(pumps and pipes)

☒ X

Water storage feasibility study

☐

Water exchange or water right acquisition

☐

Please describe your project in detail

**This project will help meet the City of Camas's commitment to water conservation, which is a high priority action item identified in the WRIA 27/28 Salmon-Washougal and Lewis Watershed Management Plan ("WRIA 27/28 Plan").**

**This project will upgrade existing irrigation systems in the City of Camas parks and sports fields maintained by the Camas School district, to improve water conservation and instream flows in the Lower Washougal River and Lacamas Creek. The City will contract for water audits at the specified sites to analyze the upgrades required for each site. Upgrades may include new controller units that activate the system based on weather conditions, nozzle replacement and head relocation to optimize coverage. Systems will be upgraded to meet a 65% efficiency standard.**

**Most of the irrigation systems currently in use have timer units and do not compensate for rains or cooler weather that reduce the need for water. The current controllers are set to water for the worst event thus over watering during cool and wet weather. Over watering can lead to fertilizer and herbicide runoff to tributaries. Many of the systems do not use the most efficient technology in nozzle design that provides even distribution in the spray zone. Uneven distribution can promote over watering by adjusting the watering time to water the least covered area. Improper head spacing can also lead to over watering, similar to inferior nozzle distribution. Park and School Districts have difficulty making the capital investment for improvements with long paybacks. This project will subsidize the up-front capital investment and allow the districts to realize savings in the future while reducing water demand overall.**

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Use this box to make any other comments regarding the project and water rights involved

**The lower Washougal River and Lacamas Creek subbasins support five populations of Endangered Species Act (ESA) listed salmonids. These watercourses are also identified in the WRIA 27/28 Plan and Lower Columbia Salmon Recovery and Fish & Wildlife Subbasin Plan ("Recovery Plan") as a high priority for implementation of actions that improve instream flows (WRIA 27/28 Plan pgs 4-24, 4-54; Salmon Recovery Plan pg I-94). Instream Flow Incremental Methodology (IFIM) studies conducted in the project vicinity demonstrate that flows in the Washougal River are well below the "optimum" flows determined for various life stages of ESA-listed salmonid fish (e.g., chum, Chinook, summer and winter steelhead and coho) (WRIA 27/28 Plan Pg 4-57). The WRIA 27/28 Plan therefore calls for increased conservation activities that exceed state requirements in this watershed (WRIA 27/28 Plan pgs 4-7, 4-23). Conservation efforts like this help defer the need for additional rights in the future and reduces current water right use. These reductions in use will help minimize impacts to instream flows.**

Describe the project by task (statement of work)

This project will be divided into the following tasks:

- Hire a certified consultant to complete a full water audit at all Camas Parks and School district irrigation sites. Provide a report for each site detailing deficiencies and recommended upgrades to achieve a 65% efficiency standard. Consultant to provide the City with a draft policy on irrigation design efficiency standards for implementation on future city parks and possible integration into City wide development standards.
- Provide a competitive bid on Small Works Roster to implement recommendations of the audit report. Contractor will be required to make any adjustments detailed in the follow-up audit described below.
- Audit consultant will certify that the individual sites after upgrades are complete meet the 65% efficiency goal.

#### 4. Project Budget

Project Budget

**The project cost is estimated at \$138,000 for the conversion of up to 16 sites with two central control units. The request for this grant is \$96,600. The Parks Department and School District will fund a portion for each site that will be limited to a one year payback period or about \$4,500 each. The Camas Water Utility will fund the remainder of the program through their conservation program for a total of \$18,000**



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Total budget by project task or by expenditure

**Site Audit consultant \$20,000**

**Contract installation \$112,000**

**Audit follow-up \$8,000**

**Total cost \$138,000**



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#### 5. Funding Source Information

Total project amount expected to be provided by sources other than this program (dollar total and percent of project budget)

\$27,600 or 20% of the project cost

Identify sources and type of funding other than through this program grant. Include expected dates of participation. Include as an attachment; letters of commitment, offer letters, application approvals, etc.

Source and type of funding: **City of Camas Water Utility fund -Conservation**

Amount: **\$18,000**

Status: **Approved in the 2009 Budget**

Dates of participation: **2009**

Source and type of funding: **City of Camas Parks Department**

Amount: **\$4,500**

Status: **Approved in 2009 parks budget. May include some in-kind contribution**

Dates of participation:

Source and type of funding: **Camas School District**

Amount: **\$4,500**

Status: **Pending, Due to budget constraints School district will be supplying the dollar amount as in kind work with School district crews completing work on their site to reduce overall contract cost.**

Dates of participation: **2009**

Source and type of funding:

Amount:

Status:

Dates of participation:

Source and type of funding:

Amount:

Status:

Dates of participation:

Source and type of funding:

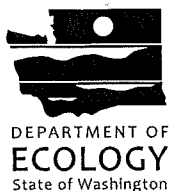
Amount:

Status:



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Dates of participation:



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**6. Instream Flow and other Instream Habitat Benefits**

**A. Water Right Information - Attach Water Right documents**

**(You may skip this section if this application is for Storage Feasibility Study funding)**

Water right holder's name (if other than applicant) <b>City of Camas</b>	Phone no: <b>(360) 817-1563</b>	Fax no: <b>(360) 834-0215</b>
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Address  
**PO Box 1055**

City <b>Camas</b>	State <b>Wa</b>	Zip code <b>98607</b>
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Complete legal description of the property attached to this water right:  
**Place in use, City of Camas Water Service Boundary**

Water right number: The City holds multiple rights that provide water for irrigation purposes to these sites. **Water right numbers provided by request**

Parcel number associated with this water right:  
**City Wide**

Do you own the property proposed for this project? If not, please explain:  
**Property is owned by the City of Camas and Camas School District. The attached letter from Camas School District provides for access to their sites for the project.**

If the grant applicant is not the water right holder, please explain the reason:

Water source: (Stream name). **Ground water is the primary source for the irrigation water used and has some influence on the Washougal and Columbia river. The City does hold surface rights to Jones/Boulder creek that may be influenced before May 15<sup>th</sup> and after October 31<sup>st</sup>. These two streams are subject to a voluntary seasonal trust donation between May 15 and October 31<sup>st</sup> as part of recent grants of right for additional ground water.**

**B. Water Usage**

Has water been put to beneficial use in the past five years?

Yes ☒ No ☐ I don't know ☐

Describe that use in terms of the specific beneficial use during that period:

**Municipal use**

(Please attach any available documents that verify that use during the last five years. Include aerial photographs, power company records, flow meter records, crop type records, NRCS documentation or FSA records)

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Has beneficial use of this water ceased for a period of five or more years during any period since 1967?  
Yes ☐ No ☒

Please describe the beneficial use for the water quantified under the water right discussed above. Describe the following: purpose (examples: domestic, irrigation, municipal); system type; if irrigation, describe crop type. **Municipal**

Quantify as nearly as possible current water use:

Instantaneous rate (QI) of use: **0.83 CFS based on 16 sites 150 day year 8 hour days**

Annual rate (QA) of use **83 ACRE- FEET**

Historic beneficial use quantity of the water right (highest of the last 5 years/ irrigation seasons in instantaneous and annual quantities)

CFS \_\_\_\_\_ ACRE- FEET

If irrigation, how many acres are irrigated under this water right? **Approximately 110 acres are currently irrigated on the 16 sites. Most of the irrigation occurs on athletic fields that require heavy water and fertilizer to maintain with the high use impacts.**

Are there other water rights associated with this specific water right? **All rights held by the City of Camas are used for the 16 sites**

In order to process this pre-application ecology requires the following information (include for the previous five years; please attach copies of all documents and maps)

- ◆ Power data (contact local power utility for pump records, etc.)
- ◆ Historical crop type data (contact local FSA office)
- ◆ Flow meter records (contact local power utility)
- ◆ Aerial photos (contact local FSA office)



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#### C. Estimated Total Water Savings

**Infrastructure projects:** Estimate the water to be conserved through this project. Provide engineering or technical analysis to support this estimate. Total water usage for 2007 was 27,000,000 gallons for the 16 sites in total. This represents an average of 1,6875,000 gallons per site. The quantities below assume a 5 month period of use from Mid April to Mid October with a 20% water savings after the project is complete.

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOT
QA (ACRE-FEET)				1.66	3.32	3.32	3.32	3.32	3.32	1.66			
QI (CFS)													



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#### D. Additional Instream Benefits

Describe other instream benefits envisioned as a result of funding this project:

**With reduced and efficient water use, over-watering that develops into runoff will be eliminated. Runoff from a site can carry herbicides, and excess fertilizer into the adjacent storm system and ultimately to the receiving stream. Clay soil types in the Camas area intensifies run-off when over watering occurs.**

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#### 7. Resources currently committed to ensure long-term performance of the proposed project (operation and maintenance).

Who is responsible for long-term operation and maintenance of the project?  
**City of Camas Parks Department and Camas School District maintenance staff.**

Have operation and maintenance costs been identified? Yes ☒ No ☐

If yes, please describe: **Ongoing head replacement, leak detection and repair, controller set, controller adjustment, winterization, spring activation.**

Summarize these costs on an annual basis below:

**All of the maintenance costs are already preformed and embedded in the annual operations budgets for both agencies. There should be a net reduction of repair work for the first few years due to the upgrades and then return to normal levels as head/nozzle issues resume.**

Are measurement devices other than diversion source meters necessary to monitor compliance with the project intent or plan? Yes ☐ No ☒

If yes, please describe:

Does a water measurement device exist on the source and downstream of the proposed project?  
☐ yes ☐ no

If no, will a water measurement device be installed as part of this project? Yes ☐ No ☐  
 If yes, describe location and operating entity:

If yes, provide the river mile:

What is the nearest stream gage downstream of the proposed project? Source name

**N/A**

River mile :

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#### 8. Proponent's Readiness to Proceed

Describe status of feasibility reports, engineering design, and permits. Provide documentation for these deliverables and describe the project effort timeline as appropriate (submit two (2) copies of all required documents).

**Upon receiving the grant City staff will issue an RFP for the audit consultant with completion of selection, site review, and report by October, 2009.**

**Small works roster and construction complete by December, 2009**

**Follow-up consultant work by April, 2010 Project complete.**

Does the project proponent own the land for the proposed project? If not, does the proponent have documented access to the right of way or owns an easement to the property proposed (please attach appropriate documentation including title report as applicable).

**Yes, the School District has provided a letter granting access for their portion of the project.**

Design/Engineering Status:

- |                                   |   |
|-----------------------------------|---|
| Pre-planning (pre - permitting)   | <input type="checkbox"/> <b>July, 2009</b>      |
| Pre-design (design reports) (10%) | <input type="checkbox"/> <b>August, 2009</b>    |
| Schematic design (30%)            | <input type="checkbox"/> <b>Status:</b>         |
| Design development (75%)          | <input type="checkbox"/> <b>September, 2009</b> |
| Construction documents (95%)      | <input type="checkbox"/> <b>October, 2009</b>   |
| Bid documents (ready for bid)     | <input type="checkbox"/> <b>October, 2009</b>   |



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**Permit Status**

SEPA	<input type="checkbox"/>	Status: N/A
401	<input type="checkbox"/>	Status: N/A
Dept. of Fish and Wildlife consultation	<input type="checkbox"/>	Status: N/A
Storage and/or Secondary Use Permit	<input type="checkbox"/>	Status: N/A
Other: (Local building permits____) work	<input type="checkbox"/>	Status: will secure prior to construction
Other:( _____)	<input type="checkbox"/>	Status:
Other: ( _____)	<input type="checkbox"/>	Status:

**9. Signatures** (send this sheet electronically and by original signature in surface mail)

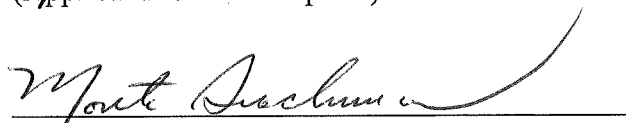
I certify that the information above is true and accurate to the best of my knowledge.

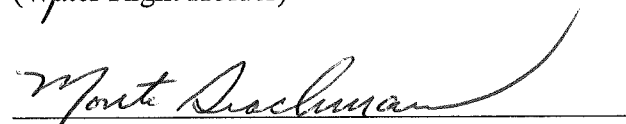
I understand that in order to process my application, I am hereby granting staff from the Department of Ecology access to the above site(s) for inspection and monitoring purposes.

If assisted in the preparation of the above application, I understand that all responsibility for the accuracy of the information rests with me.

I also understand that I may rescind this application at any time prior to signing the Agreement with no other obligations or requirements.

 (Applicant/ Grant Recipient)	<u>12 / 30 / 08</u> (Date)
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 (Water Right Holder)	<u>12 / 30 / 08</u> (Date)
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 (Land Owner(s) of Existing Place of Use)	<u>12 / 30 / 08</u> (Date)
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For More Information Contact:

Dave Burdick

**Voice:** (360) 407-6094

**Email:** dbur461@ecy.wa.gov



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**Web:** <http://www.ecy.wa.gov/watershed/Index.html>

If you need this document in an alternate format, please call the Water Resources Program at 360-407-6600. Persons with hearing loss can call 711 for Washington Relay Service. Persons with a speech disability can call 877-833-6341.





CAMAS SCHOOL DISTRICT  
A TRADITION OF CARING AND QUALITY

1919 NE IONE STREET  
CAMAS, WA 98607-1145  
WWW.CAMAS.WEDNET.EDU

TEL 360.833.5400  
FAX 360.833.5401

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December 22<sup>nd</sup>, 2008

Eric Levison  
Operations Manager  
Public Works Department  
City of Camas

Mr. Levison,

The Camas School District grants the City of Camas access across the district fields for the purposes of implantation of an irrigation conservation project. The Camas School District has eight schools which are on irrigation. We also irrigate thirteen soccer/football fields and eight baseball/softball fields. Due to budget constraints at this time we are unable to make a firm financial commitment to the project, but will revisit the issue for the 2009-10 budget year, which will be available in March of 2009.

Sincerely,

Bryan McGeachy  
Director of Operations  
Camas School District #117